

THE CONTRED STANTES OF ANTERIOR

Hioneer Hi-Bred International, Inc.

Thorons, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY BY AS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC MALE ASSIGNED THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT TO BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'RJS34001'

In Costimonn Macrost, I have hereunto set my hand and caused the seal of the Mant Mariety Protection Office to be affixed at the City of Washington, D.C. this twenty-second day of January, in the year two thousand and nine.

Attest.

Ol-3

Commissioner Plant Variety Protection Office Agricultural Marketing Service un Velrul

REPRODUCE LOCALLY. Include form number and date on U.S. DEPARTMENT OF AGRICULTURAL MARK	AGRICULTI ETING SERV	JRE VICE	Form Approved - OMB No. 0581-0055 The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Peperwork Reduction Act (PRA) of 1995.					
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)				Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).				
1. NAME OF OWNER		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		EMPORARY DESIGNATION OR XPERIMENTAL NAME	3. VAR	IETY NAME		
Pioneer Hi-Bred International,	Inc.			B34L07		RJS34001		
4. ADDRESS (Street and No., or R.F.D. No., City, State,	and ZIP Cod	le, and Country)		ELEPHONE (include area code)		FOR OFFICIAL USE ONLY		
7300 N.W. 62nd Avenue		(5	515) 253-2197		NUMBER			
P.O. Box 1004				6. FAX (Include area code) #2 0 0.8 0 0 1				
Johnston, IA 50131-1004			(515) 253-2288	FILING	DATE		
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE ORGANIZATION (corporation, partnership, association		8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. D	ATE OF INCORPORATION		2/28/2008		
Corporate		Iowa	M	ay 6, 1926				
10. NAME AND ADDRESS OF OWNER REPRESENTAT	TIVE(S) TO S	ERVE IN THIS APPLICATION. (Fire	st person l	sted will receive all papers)	# E	FILING AND EXAMINATION FEES:		
Paul D. Koelling		Cassie J. Prochas	ska		s	DATE 2/28/08		
7300 N.W. 62nd Avenue		7250 N.W. 62nd	Avenu	е .	R E C	CERTIFICATION FEE:		
P.O. Box 1004		P.O. Box 552			E I V	s 768.00		
Johnston, IA 50131-1004		Johnston, IA 50)131-1	000	E D	DATE 1/6/2009		
	FAX (Includ			13. E-MAIL	noor i	com		
(515) 253-2197 14. CROP KIND (Common Name) 16.	FAMILY NA	253-2288 ME (Botanical)		paul.koelling@pio	N ANY T	RANSGENES? (OPTIONAL)		
Soybean Fabaceae 15. GENUS AND SPECIES NAME OF CROP 17. IS THE VARIETY A FIRST GENERATION HYBRID			RID?	☐ YES NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERICALIZATION.				
Glycine max 19. CHECK APPROPRIATE BOX FOR EACH ATTACHM	YES	TTED X NO		20. DOES THE OWNER SPECIFY	THAT S	EED OF THIS VARIETY BE SOLD AS A CLASS		
(Follow instructions on reverse)			_		13(a) of the Plant Variety Protection Act)			
a. X Exhibit A. Origin and Breeding History of the b. X Exhibit B. Statement of Distinctness		-			nd 22 below) X NO (If "no", go to item 23) EED OF THIS VARIETY BE LIMITED AS TO			
c. X Exhibit C. Objective Description of Variety			İ	NUMBER OF CLASSES?				
d. X Exhibit D. Additional Description of the Varie	ety (O <i>ptional</i>)			IF YES, WHICH CLASSES?		NDATION REGISTERED CERTIFIED		
e. X Exhibit E. Statement of the Basis of the Owl	ner's Ownersi	qiri		 DOES THE OWNER SPECIFY NUMBER OF GENERATIONS 	THAT S	EED OF THIS VARIETY BE LIMITED AS TO		
f. X Exhibit F. Declaration Regarding Deposit				YES NO				
g. X Voucher Sample (3,000 viable untreated se that fissue culture will be deposited and main			7	IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.				
g. X Filing and Examination Fee (\$4,382), made (reasurer of the United		FOUNDATION REGISTERED CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)				
23. HAS THE VARIETY (INCLUDING ANY HARVESTED FROM THIS VARIETY BEEN SOLD, DISPOSED OF	MATERIAL)		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT?)?					
OTHER COUNTRIES? ✓ YES ✓ NO				✓ YES NO				
IF YES, YOU MUST PROVIDE THE DATE OF FIRST FOR EACH COUNTRY AND THE CIRCUMSTANCE				IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)				
The owners declare that a viable sample of basic sec for a tuber propagated variety a tissue culture will be	ed of the varie	ety has been furnished with applicati	ion and wil	I be replenished upon request in ac ration of the certificate.	cordance	with such regulations as may be applicable, or		
The undersigned owner(s) is(are) the owner of this sentitled to protection under the provisions of Section 4	exually reprod	duced or tuber propagated plant vari			tinct, unif	orm, and stable as required in Section 42, and is		
Owner(s) is (are) informed that false representation h	nerein can jeo	pardize protection and result in pen	nalties.					
SIGNATURE OF OWNER			SIGNATI	URE OF OWNER				
NAME (Please print or type)				llease print or type)				
Paul D. Koelling								
CAPACITY OR TITLE	DATE		CAPACI	Y OR TITLE	DATE			
rocess Improvement Manager	12	6,25,2008						

Process Improvement Manager

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filling fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filling, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and of the Corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact; U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, Seed Regulatory and Testing Branch, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patentt.)
 U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to everage 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, perental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiologe, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (600) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety RJS34001

Variety RJS34001 evolved from a cross made in the winter of 2001/02 in Puerto Vallarta Mexico with the following parentage:

Parentage = 93B86/93B85*

*93B85 is a commercial variety with the Roundup Ready® (40-3-2) gene

Variety RJS34001 is an F3-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of RJS34001 was grown in a plant row yield trial in Iowa in the summer of 2002. Subsequently, RJS34001 has undergone five seasons of extensive testing and purification in the United States. It has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, soybean cyst nematode resistance (Race 3), Phytophthora resistance and resistance to Roundup® branded herbicides; variety RJS34001 was assigned a commercial number.

The purification block was grown in 2005 in Iowa and 39 sub-lines were harvested. A fourth (0.25) acre increase was grown in Chile in the winter of 2005/06. Twenty (20) acres of parent seed stock (foundation seed equivalent) were grown in the summer of 2006, and approximately 546 acres of seed stock and production seed were grown in the summer of 2007.

Exhibit B. Statement of Distinctness

Soybean Variety RJS34001

Variety RJS34001 is most similar to Pioneer varieties 93M61 and 93M50. All varieties have white flowers, light tawny pubescence, yellow seed with black hila, brown pod wall, resistance to race 3 of the soybean cyst nematode, resistance to *Phytophthora megasperma* as governed by the Rps1k gene, and resistance to Roundup® branded herbicides. However, RJS34001, 93M61, and 93M50 have different isozyme profiles as identified in table 1 below.

Table 1

Variety	ACO4	IDH1	MDH	GPI1
RJS34001	1,3	1	В	2
93M61	3	M	Α	М
93M50	No data	2	Α	1

Note: M = Multiple

Form Approved OMB NO 0581-0055

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U.S. DEPARTMENT OF AGRICULTURE

EXHIBIT

C
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Soybean (Glycine max (L.) Merr.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME				
Pioneer Hi-Bred International, Inc.	XB34L07	RJS34001				
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country		FOR OFFICIAL USE ONLY				
7300 N.W. 62nd Avenue, P.O. Box 1004, Joh	nston, IA, 50131-1004	#20080015				
should be based on a minimum of 100 plants. Comparati) when number is either 99 or less or 9 or less respectively. ve data should be determined from varieties entered in the solant colors; designate system used	ame trial. Royal Horticultural Society or				
A. MORPHOLOGY: Seed Shape: 1 = Spherical (L/W, L/T, and T/W ratios ≤1.2)	2 = Spherical-Flattened (L/W ratios> 1.2; L/T ratios ≤ 1.2)	$\bigoplus_{w} \ \bigoplus_{T} \ $				
3 = Elongate (L/W ratios > 1.2; T/W ratios ≤ 1.2)	4 = Elongate-Flattened (L/T ratios ≥ 1.2; L/W ratios ≥ 1.2)					
Seed Coat Color: * 1 1 = Yellow 2 = Green 3 = Bro Seed Coat Luster:	wn 4 = Black 5 = Other (Please specify	·)				
1 1 = Dull 2 = Shiny						
Seed Size: * 16.5 grams/100 seeds (rounded to	he nearest decimal (00.0))					
Hilum Color: * 6 1 = Buff 2 = Yellow 3 = Brov 7 = Other (Please specify)	wn 4 = Gray 5 = Imperfect Black	6 = Black				

xhibit C (Soybean)

A. MORPHOLOGY: (continued)

Cotyledon Color:

1 1 = Yellow 2 = Green

Seed Protein Peroxidase Activity:

2 = High

Hypocotyl Color:

1 = Green

2 = Green with Bronze ('Evans' or 'Davis') Band below cotyledons ('Woodworth' or 'Tracy') 3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71')

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please specify)

Flower Color:

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

* 2 1 = Tan

2 = Brown

3 = Black

Pubescence Color:

* 3 1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

* 3 1 = Determinate

2 = Semi-determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

 $6 \mid 1 = 000$

6 = III

2 = 007 = IV

3 = 0V = 8 4 = 19 = VI

5 = 1110 = VII

11 = VIII

12 = 1

13 = X

14 = XI

15 = XII

Maturity Subgroup:

4 Please enter a value from 0-9

B. DISEASE REACTIONS: 0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in the examination process. Items denoted by and asterisk are the disease reactions most useful in the examination process.

Bacterial

- * 0 Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

- Brown Spot (Septoria glycines Hemmi)
- 0 Frogeye Leaf Spot (Cercospora sojina Hara)
- 0 race 1
- 0 | race 3
- 0 race 5
- race 7

- race 2
- race 4
- () race 6

Important: Any other races tested (Please specify)

													0 (00,000
3.	DIS	SEASE RE	EAC'	TIONS: (ca	ontinu	ıed)							
	0	Target Spo	t (Ca	rvnespora c	assiic	ola (Berk. & Cu	art. Y V	Vei)					
	0	1	•	• •		orum var. mand	•	•	d Ex	(Gäum)			
	0	1	•	•		ffusa Cke. & P		(
	0	į (, ,		gata (Allington	•	namherlain) W	' Ga	ms)			
*	0	า์			=	orum (Cke. & El		-		•	well		
*	1		-	•		haseolorum (C	•				-	nm)	
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ine		3	codir	na for reactio	on to F	Phytophthora R	oot F	?∩t					
, p c		Rps1	0	<u> </u>		Rps1-k	0	7	Ω	Rps5	O F	Rps?	
	U	(Williams)	U	(Arksoy)	[2	(Kingwa)	U	(Pi 172.901)	U	(PI 91.160)		(Nezumisaya, OX939, 0	OX940
	0	Rps1-a	0				0	Rps3-c	0	Rps6			
		(Mukden)	۲	¯ (PI 103.09 ¬	91)	CNS)		(PI 340.046)		(Altona)			
	0	Rps1-b (Sanga)	0	<i>∣Rps1-e</i> √Pl 172.90	₍₇₎	<i>Rps3-a</i> (Pl 171.442)	0	<i>Rps4</i> (Pl 86.050)	0	Rps7 (Harosoy)			
Dh		hthere Deet	Dot /	(Dhutanbtha	, 			•		, ,,			
- 11		1				ae (Kaufmann⊸					Λ		
		race 1	0	ii ii	0	╗	0	race 25	0	race 32		race 39	
		race 2	0	ī	0	-	0	race 26	0	race 33		race 40	
		race 3	0	₹		╡	0	race 27	0	race 34		race 41	
		race 4	0			╡	0	race 28	0	race 35	0		
	౼౼	race 5	0		0	===	0	race 29	0	race 36	0	race 43	
	<u> </u>	race 6	0	race 14	0	≒	0	race 30	0	race 37	0	1	
		race 7	0	race 15	0	₩	0	race 31	0	race 38	0	race 45	
	0	race 8	0	race 16	0	race 24	0	Important: Ar	ny ot	her races test	ed (F	Please specify)	
	1	Bud Blight (Toba	cco Ringspo	ot Viru	s)							
	1	Yellow Mosa	aic (E	Bean Yellow	Mosa	ic Virus)							
*	1	Cowpea Mo	•			•							
	1	Pod Mottle (•		·							
*		Seed Mottle	-										
Ne	mate	ode											
Soy		_		. [ines Ichinohe)							
	0	race 1	0 r	ace 4	0 ra	ce 9							
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| 0 | Important: Any other races tested (Please specify) _

В.	DI	SEASE REACTIONS: (continued)
	0	Lance Nematode (Hoplolaimus columbus Sher)
	0	Southern Root Knot Nematode (<i>Meliodogyne incognita</i> (Kofoid & White) Chitwood)
	0	Northern Root Knot Nematode (<i>Meliodogyne hapla</i> Chitwood)
	0	Peanut Root Knot Nematode (<i>Meliodogyne arenaria</i> (Neal) Chitwood)
	0	Reniform Nematode (Rotylenchus reniformus Linwood & Olivera)
	0	Javanese Nematode (<i>Meliodogyne javanica</i> (Treub) Chitwood)
	0	Important: Other Nematodes tested (Please specify)
C.	PH	IYSIOLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	1	Iron Chlorosis on Calcareous Soil
	0	Phosphorus 0 Important: Other (Please specify)
	0	Boron
	0	Aluminum
	0	Salt
,	0	Drought
<u> </u>	INIC	SECT REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
v.		SECT REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0	Mexican Bean Beetle (Epilachna varivestis Mulsant)
	0	Soybean Aphid (Aphis glycines Matsamura)
	0	Potato Leaf Hopper (Empoasca fabae (Harris))
	0	Important: Other (Please specify)
E.	HE	RBICIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0	Metribuzin
	0	Bentazone
	1	Sulfonylurea
*	2	Glyphosate
	1	Glufosinate
		Pendimethalin
		Important: Other (Please specify)
	<u></u>	

F. TRANSGENIC COMPOSITION:

Has the development of the subject variety included the insertion of genetic material from an organism other than a soybean, or, the removal of genetic material from the application variety?

If yes, please complete the following information requests*. Use additional pages if necessary.

✓ Yes

No

- 1. Please state the vector's name:
- 2. Please state the vector components:
- 3. Please describe the genetic material successfully transferred into the subject variety:
- 4. Please describe the insertion protocol:
- * A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence Repeats (SSRs), Restriction Fragment Length Polymorphisms (RFLPs), Isozyme characterization, etc.). Use additional pages if necessary.

H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETIES:

Please provide paired comparison data and appropriate statistical test (e.g. LSD. Std. error, ANOVA, Mann-Whitney *U*-test or Kruskal-Wallis Test, etc.) value (95 or > probability level).

Variety	No. of days Maturity	Plant height (cm)	% Linoleic acid	% Oleic acid	% Linolenic acid	% Other fatty acids (specify)	% Total oil	% Protein (Plant dried down to%)
Application Variety Year/Location 1								
Year/Location 2								
Cited Most Similar Variety Year/Location 1								
Year/Location 2 LSD .05								

I. COMMENTS:

Number 1:

The Transgenic Composition section is fully addressed in the following publication. Specific details of this vector components and insert elements are summarized in Figure 1 and Table 1 on page 1453. Padgett, S.R. et al. Development, Identification, and Characterization of a Glyphosate-Tolerant Soybean Line. 1995. Crop Science. 35:1451-1461.

Number 2:

RJS34001 is rated as susceptible to iron chlorosis on calcareous soils. On a scale of one to nine with one being fully susceptible, and nine being complete resistance; RJS34001 is rated three.

Exhibit D. Additional Description of the Variety

Soybean Variety RJS34001

In Exhibit C we have identified variety RJS34001 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety RJS34001 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider RJS34001 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety RJS34001 is a mid Group 3 variety. If Group 3 varieties are divided into tenths, the relative maturity of RJS34001 is 3.4.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) Pioneer Hi-Bred International, Inc.	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 7300 N.W. 62nd Avenue	TEMPORARY OR EXPERIMENTAL DESIGNATION XB34L07			
	P.O. Box 1004 Johnston, IA 50131-1004	varie RJS34001			
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY			
Paul D. Koelling	7300 N.W. 62nd Avenue P.O. Box 1004	#200800153			
Cassie J. Prochaska	Johnston, IA 50131-1004				

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Paul D. Roelling Signature

Feb. 25, 2008